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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/059,682	01/29/2002	Mario E. Bran	VERTE.076A	5570

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COZEN O'CONNOR, P.C.
1900 MARKET STREET
PHILADELPHIA, PA 19103-3508

EXAMINER

STINSON, FRANKIE L

ART UNIT	PAPER NUMBER
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1746

DATE MAILED: 01/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Am

Office Action Summary	Application No. 10/059,682	Applicant(s) BRAN, MARIO E.	
	Examiner FRANKIE L. STINSON	Art Unit 1746	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 November 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 2, 4-6, 8, 9, 11, 12, 14 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lauerhaas et al. (U. S. Pat. No. 6,754,980) in view of Japan'234, Satoh or Barbee et al.

Re claims 1, 11 and 14, Lauerhaas is cited disclosing an assembly for cleaning a thin substrate comprising:

a transmitter (122) positioned above the substrate where a meniscus of liquid is formed between the substrate and transmitter;

a transducer coupled to the transmitter to create a transmission path from the transducer through the substrate that differs from the claims only in the recitation of the at least one of (1) a gap in the transmission path between the transducer and end face of the transmitter, and (2) a recess in the end of the transmitter. The patents to Japan'234, Satoh and Barbee are each cited disclosing a transmitter being coupled to a transducer, where there is provided at least one of a gap (see fig. 1 in Japan'234, see fig. 11 in Satoh, and see fig. 2 in Barbee) in the transmission path between the transducer and end face of the transmitter, and (2) a recess in the end of the transmitter. It therefore would have been obvious to one having ordinary skill in the art to modify the transmitter in Lauerhaas, to be as taught by either Satoh or Barbee for the purpose of providing efficient transmission of wave energy to the transmitter. Re claims

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11 and 15, note that Barbee discloses the coupler (bottom part of housing 43). Re claim 20, in view of the corresponding structure, the functional limitations are deemed to be inherent. Re claims 2, Lauerhaas discloses the alignment. Re claims 4 and 9, Lauerhaas discloses the elongated/rod configuration. Re claims 5 and 6, Lauerhaas discloses the liquid source/dispenser. Re claim 8 to have the recess wedge-shaped is deemed to be an obvious matter of design in that the gap as claimed in that the wedge-shaped recess is deemed to the mere substitution of equivalents (see MPEP 2144.06 SUBSTITUTING EQUIVALENTS KNOWN FOR THE SAME PURPOSE). This also applicable to the coupler as claimed in claim 12.

5. Claims 10, 13 and 15-19 stand allowed.

1. Applicant's arguments filed Nov. 29, 2005 have been fully considered but they are not persuasive. In regard to the primary argument, namely that the applied reference s are not combinable due the art being non-analogous, please note that all of the applied art is related to the transmission of wave energy and thusly, the same have therefore been considered to be reasonably pertinent. It has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, if there is a problem with a one transmitter, it is the examiner position it would be reasonable to assume that there may be a problem with all transmitter. Also, note that applicant has broadly claimed a "thin substrate", which is not necessarily, a semiconductor. However,

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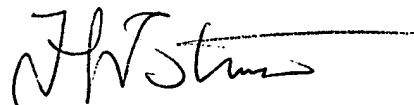
the examiner would give further consideration to applicant's argument of the non-analogous art, combination , if a semiconductor wafer is claimed.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRANKIE L. STINSON whose telephone number is (571) 272-1308. The examiner can normally be reached on M-F from 5:30 am to 2:00 pm and some Saturdays from approximately 5:30 am to 11:30 am.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr, can be reached on (571) 272-1700. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

fls



FRANKIE L. STINSON
Primary Examiner
GROUP ART UNIT 1746